

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) A seed of a cotton cultivar designated 00X01BR wherein a representative sample of seed was deposited under ATCC Accession No. _____ No. PTA-6634.

2. (CURRENTLY AMENDED) A cotton plant, or a part thereof, of cotton cultivar 00X01BR, wherein a representative sample of seed of said cotton cultivar was deposited under ATCC Accession No. _____ No. PTA-6634.

3. (ORIGINAL) Pollen of the plant of claim 2.

4. (ORIGINAL) An ovule of the plant of claim 2.

5. (PREVIOUSLY PRESENTED) A tissue culture of regenerable cells produced from the plant of claim 2.

6. (PREVIOUSLY PRESENTED) A tissue culture according to claim 5, wherein said regenerable cells of the tissue culture are derived from a plant part selected from the group consisting of leaves, pollen, embryos, cotyledon, hypocotyl, meristematic cells, roots, root tips, anthers, flowers, seeds, stems and pods.

7. (CURRENTLY AMENDED) A cotton plant regenerated from the tissue culture of claim 5, wherein the regenerated plant has all of the morphological and physiological characteristics of cotton cultivar 00X01BR and wherein a representative sample of seed of said cotton cultivar was deposited under ATCC Accession No. _____ No. PTA-6634.

8. (ORIGINAL) A method for producing a hybrid cotton seed comprising crossing a first parent cotton plant with a second parent cotton plant and harvesting the resultant hybrid cotton seed, wherein said first parent cotton plant or said second parent cotton plant is the cotton plant of claim 2.

9. -16. (CANCELED)

17. (PREVIOUSLY PRESENTED) A cotton plant according to claim 24, wherein said herbicide resistance is selected from the group consisting of glyphosate, glufosinate, sulfonylurea, imidazolinone and protoporphyrinogen oxidase inhibitor.

18. (PREVIOUSLY PRESENTED) A method for producing a cotton plant that contains in its genetic material a transgene, wherein the method comprises crossing the cotton plant of claim 2 with either a second plant of another cotton cultivar which contains a transgene, or a transformed cotton plant of the cotton cultivar 00X01BR, so that the genetic material of the progeny that result from the cross contains a transgene operably linked to a regulatory element.

19. (PREVIOUSLY PRESENTED) The method of claim 18, wherein said transgene confers a trait selected from the group consisting of herbicide resistance, insect resistance and disease resistance.

20. (PREVIOUSLY PRESENTED) A cotton plant, or a part thereof, produced by the method of claim 18.

21. (CURRENTLY AMENDED) A method of introducing a desired trait into cotton cultivar 00X01BR wherein the method comprises:

- (a) crossing the 00X01BR plants, grown from seed deposited under ATCC Accession No. ~~PTA-_____~~ PTA-6634, with plants of another cotton cultivar that comprise a desired trait to produce F1 progeny plants, wherein the desired trait is selected from the group consisting of male sterility, herbicide resistance, insect resistance and resistance to bacterial, fungal or viral disease;
- (b) selecting F1 progeny plants that have the desired trait to produce selected F1 progeny plants;
- (c) crossing the selected F1 progeny plants with the 00X01BR plants to produce first backcross progeny plants;
- (d) selecting for first backcross progeny plants that have the desired trait and physiological and morphological characteristics of cotton cultivar 00X01BR to produce selected first backcross progeny plants; and

- (e) repeating steps (c) and (d) three or more times in succession to produce selected fourth or higher backcross progeny plants that comprise the desired trait and all of the physiological and morphological characteristics of cotton cultivar 00X01BR as described in the VARIETY DESCRIPTION INFORMATION.

22. (PREVIOUSLY PRESENTED) A plant produced by the method of claim 21, wherein the plant has the desired trait and all of the physiological and morphological characteristics of cotton cultivar 00X01BR as described in the VARIETY DESCRIPTION INFORMATION.

23. (PREVIOUSLY PRESENTED) A method of producing a transgenic cotton plant wherein the method comprises transforming the cotton plant, or a part thereof, of claim 2 to produce a transformed cotton plant, wherein said transformed cotton plant contains a transgene operably linked to a regulatory element and wherein said transgene confers a trait selected from the group consisting of herbicide resistance, insect resistance, and disease resistance.

24. (PREVIOUSLY PRESENTED) A transgenic cotton plant produced by the method of claim 23.